Rec'd PCT/PTO 30 MAR 2005



RLOD	1	2	NOV	2004
WIPO				PCT

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	OR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/4)						
3DM P-308 International application No.	International filing date (day/mo	<u> </u>	Priority date (day/month/year)					
PCT/US03/30843 30 September 2003 (30.09.2003) 30 September 2002 (30.09.2003) International Patent Classification (IPC) or national classification and IPC								
IPC(7): B29C 33/02, 33/34, 39/02 and t Applicant	JS Cl.: 425/117, 130, 215							
3DM TECHNOLOGIES, INC.								
	nary examination report has be		this International Preliminary					
2. This REPORT consists of	a total of sheets, includin	g this cover she	et.					
which have been ame	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a	a total of 3 sheets.	_						
3. This report contains indica	ations relating to the following	items:						
I Basis of the rep	ort							
II Priority	II Priority							
III Non-establishm								
IV Lack of unity o	f invention							
V Reasoned states								
VI Certain docume		Atmig such state	Anone					
		n						
Date of submission of the demand	Da	te of completion	of this report					
29 April 2004 (29.04.2004)	01	November 2004 ((01.11.2004)					
Name and mailing address of the IPEA	'US Au	Authorized officer						
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	To	seph S. Del Sole	DEBORAH A. THOMAS					
P.O. Box 1450 Alexandria, Virginia 22313-1450		•	PARALEGAL SPECIALIST					
Facsimile No. (703) 305-3230	1	epnone No. (57)	272-1130GROUP 1988 Det					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International applic	No.
PCT/US03/30843	

I.	Basis	s of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-12 as originally filed
		pages NONE , filed with the demand
	∇	pages NONE, filed with the letter of
		the claims:
		pages NONE , as originally filed pages 13-15 , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand
		pages 13-15 , filed with the letter of 21 July 2004 (21.07.2004) .
	\boxtimes	the drawings:
		pages 1-7, as originally filed
		pages NONE , filed with the demand
	\Box	pages NONE, filed with the letter of
	Ш	the sequence listing part of the description:
		pages NONE , as originally filed pages NONE , filed with the demand
		pages NONE , filed with the letter of
2.	Witl	h regard to the language, all the elements marked above were available or furnished to this Authority in the
		uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	se elements were available or furnished to this Authority in the following language which is:
	Щ	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules
		55.2 and/or 55.3).
3.	With	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the mational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
	\sqcap	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
	H	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	اا	international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
	ш	has been furnished.
4.	\boxtimes	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. 1
_		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
* #!	Repla is ren	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
*:	Any	ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
L		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International applic No. PCT/US03/30843

V. Reasoned statement under Rule 66.2(a) citations and explanations supporting s			
1. STATEMENT			
Novelty (N)	Claims	2-14	YES
	Claims	NONE	NO
Inventive Step (IS)	Claims	2-14	YES
	Claims	NONE	NO
Industrial Applicability (IA)	Claims	2-14	YES
	Claims	NONE	NO

Please See Continuation Sheet

INTERNATIONAL PRELIMINARY AMINATION REPORT

International applic No.

PCT/US03/30843

VIII.	VIII. Certain observations on the international application											
							_				. •	

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:



International application No. PCT/US03/30843

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)
Continuation of Section I. Basis of the report, Item 5 The amendment of new claims 13 and 14 filed 21 July 2004 are objected to under PCT Article 34(2)(b) because it adds matter into the application that goes beyond the disclosure as originally filed. The added matter which is new is as follows: a) a step of pre-heating the plastic particulate before introduction into a mold; and b) the step of exposing the plastic particulate to a gaseous fluid. The Applicant noted that support for claims 13 and 14 could be found at pages 15 and 16 of the original specification, however the Examiner notes that no pages 15 or 16 ever existed with the specification and support cannot be found in any of pages 1-12.
Claims 2-14 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an apparatus, or
method of operating said apparatus, wherein the apparatus has two complementary open molds for receiving particulate materials and being matable together, two hoppers for dumping particulate material into the molds, a supply of heat for heating the complementary molds, a cooling station for cooling the heated molds and a track for rolling the two carts from under the first hopper to a position under the second hopper and then into the cooling station. Claims 2-14 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed
can be made or used in industry.





INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30843

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B29C 33/02, 33/34, 39/02 US CL : 425/117, 130, 215 US CL : 425/117, 130, 215								
	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED							
	cumentation searched (classification system followed b	v classification symbols)						
	25/117, 130, 215							
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic da EAST, search	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, search terms: pivot, tip, axis dump, remove, empty, excess							
C. DOC	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where a		Relevant to claim No.					
X	US 4,664,864 A (WESROSKY) 12 May 1987 (12.0: 11-16.		1					
x	US 4722,678 A (WESROSKY) 02 February 1988 (0 lines 12-17.	-	1					
X	US 4,898,697 A (HORTON) 06 February 1990 (06.02.1990), figures 2-6 and col 4, lines 36-54.							
	·	1						
		ن						
	documents are listed in the continuation of Box C.	See patent family annex.						
• s	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic	mational filing date or priority ation but cited to understand the					
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inve	ntion					
·	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone						
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is						
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the						
	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent family						
Date of the a	Date of the actual completion of the international search Date of mailing of the international search report 1 1 FEB 2004							
	004 (23.01.2004)							
	ailing address of the ISA/US	Authorized officer	און פאיימידייירים					
	il Stop PCT, Attn: ISA/US nmissioner for Patents	Joseph S. Del Sole	er in the supplier					
	P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703) 308-6295							
	Facsimile No. (703)305-3230							